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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|-----------------|----------------------|------------------------------|------------------|
| 09/498,554 | 02/04/2000 | James L. Winkler | 03848-85586 | 8957 |
| 28315 | 7590 11/10/2003 | | EXAMINER | |
| BANNER & WITCOFF LTD., ATTORNEYS FOR AFFYMETRIX | | | LUDLOW, JAN M | |
| 1001 G STRI | | | ART UNIT | PAPER NUMBER |
| ELEVENTH FLOOR WASHINGTON, DC 20001-4597 | | | 1743 DATE MAILED: 11/10/2003 | 28 |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | 110-30 | | | |
|--|---|---|--|--|--|
| , | Applicati n No. | Applicant(s) | | | |
| A chain ann Antion | 09/498,554 | WINKLER ET AL. | | | |
| Advisory Action | Examiner | Art Unit | | | |
| | Jan M. Ludlow | 1743 | | | |
| The MAILING DATE of this communication appe | ears on the cover sheet with the c | correspondence address | | | |
| THE REPLY FILED 29 September 2003 FAILS TO PLA Therefore, further action by the applicant is required to a final rejection under 37 CFR 1.113 may only be either: (condition for allowance; (2) a timely filed Notice of Appe Examination (RCE) in compliance with 37 CFR 1.114. | void abandonment of this application (1) a timely filed amendment whi | cation. A proper reply to a chiplaces the application in | | | |
| PERIOD FOR RE | EPLY [check either a) or b)] | | | | |
| a) The period for reply expires 8 months from the mailing date of b) The period for reply expires on: (1) the mailing date of this Adverter, however, will the statutory period for reply expire later the ONLY CHECK THIS BOX WHEN THE FIRST REPLY WAS 706.07(f). Extensions of time may be obtained under 37 CFR 1.136(a). The data have been filed is the date for purposes of determining the period of extensions of the shortened (b) above, if checked. Any reply received by the Office later than three moterned patent term adjustment. See 37 CFR 1.704(b). | risory Action, or (2) the date set forth in the an SIX MONTHS from the mailing date of FILED WITHIN TWO MONTHS OF THE te on which the petition under 37 CFR 1.1 sion and the corresponding amount of the statutory period for reply originally set in | f the final rejection. E FINAL REJECTION. See MPEP 36(a) and the appropriate extension fee fee. The appropriate extension fee under the final Office action; or (2) as set forth in | | | |
| 1. A Notice of Appeal was filed on <u>02 September 2003</u> 37 CFR 1.192(a), or any extension thereof (37 CF | | | | | |
| 2. The proposed amendment(s) will not be entered b | ecause: | | | | |
| (a) 🛛 they raise new issues that would require furth | er consideration and/or search (| see NOTE below); | | | |
| (b) they raise the issue of new matter (see Note I | below); | | | | |
| (c) they are not deemed to place the application issues for appeal; and/or | in better form for appeal by mat | erially reducing or simplifying the | | | |
| (d) they present additional claims without cancel | ing a corresponding number of | finally rejected claims. | | | |
| NOTE: See Continuation Sheet. | | | | | |
| 3. \square Applicant's reply has overcome the following rejection | etion(s): | | | | |
| Newly proposed or amended claim(s) would canceling the non-allowable claim(s). | be allowable if submitted in a s | eparate, timely filed amendment | | | |
| 5. ☐ The a) ☐ affidavit, b) ☐ exhibit, or c) ☐ request fo application in condition for allowance because: se | r reconsideration has been cons <u>e above</u> . | sidered but does NOT place the | | | |
| 6. The affidavit or exhibit will NOT be considered be raised by the Examiner in the final rejection. | The affidavit or exhibit will NOT be considered because it is not directed SOLELY to issues which were newly raised by the Examiner in the final rejection. | | | | |
| 7. For purposes of Appeal, the proposed amendment explanation of how the new or amended claims we | or purposes of Appeal, the proposed amendment(s) a) will not be entered or b) will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended. | | | | |
| The status of the claim(s) is (or will be) as follows: | | | | | |
| Claim(s) allowed: none. | | | | | |
| Claim(s) objected to: none | | | | | |

Jan M. Ludlow Primary Examiner Art Unit: 1743

Claim(s) rejected: 48-147.

Claim(s) withdrawn from consideration: 148-207.

10. Other: attached interview summaries, 8/21/03, 9/17/03, 11/3/03

9. Note the attached Information Disclosure Statement(s)(PTO-1449) Paper No(s). _____.

8. The proposed drawing correction filed on ____ is a) approved or b) disapproved by the Examiner.

Continuation Sheet (PTOL-303) 09/498,554

Continuation of 2. NOTE: Limitations to ligands and individual locations are new issues. The examiner notes that the amendments and arguments appear to overcome the rejection of record, but that additional rejections may be suitable for the amended claims if entered. Specifically, Deeg 5338688 teaches forming an array with a printer, inherently spaced from a surface using 230 picoliter droplets at a density of 192x192 per square inch or 5714 per square centimeter (col. 6, lines 20-25, 64-65). Khrapko (DNA Seq, Vo.. 1, pp.375-388) teaches forming an array by pipetting 1 nl drops (p. 387) and a density of 65,536 per 2.5cmx2.5cm square, or 10,486 per square centimeter (p. 386). Brennan 5474796 teaches forming an array of 10-10000 per square centimeter using 50 picoliter to 2 microliter (col. 2, lines 15-28, col. 6, lines 20-25) from a printer which may be formed as 64 nozzles per head with a common inlet (col. 7, lines 8-15). The parent application for Brennan supports this disclosure in that it discloses 50 micron spots separated by 6nm (p. 13). Gordon (EP0063810) teaches 100 micoliter volumes used to make dots, spots or lines (p. 10-11) at a density of 1000 per square centimeter (p. 32), but also teaches that the volume can be dispensed by electrostatic printing, and simialr printing techniques dispense droplets in the pl to nl range as discussed above. It is unclear whether the volume in the instant claims is the total volume per individual area, or if plural droplets may be applied to one spot. The examiner notes that rejections over Khrapko and Gordon were withdrawn in paper no. 20, but that a closer reading indicates that such withdrawl may have been in error.